

## PATENT ABSTRACTS OF JAPAN

(11)Publication 08-246353

n number :

(43)Date of 24.09.1996

publication of

application :

(51)Int.Cl.

D06M 15/55 C08J 5/06 D01F  
6/62 D01F 11/08 // D01D 5/096

(21)Applicati 07-052228

on number :

(22)Date of 13.03.1995

filing :

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### (54) PRODUCTION OF POLYESTER FIBER

(57)Abstract: PURPOSE: To impart the adhesion to rubber by applying a spinning oil agent to a melt spun polyester fiber yarn, then drawing the yarn and applying a finish oil agent containing an epoxy compound and a silane coupling agent thereto. CONSTITUTION: A polyester polymer is melt spun to provide a yarn and a usual spinning oil agent is applied thereto. The resultant yarn is then hot drawn and an aqueous emulsion of a finish oil agent containing 30-60wt.% epoxy compound having =2 epoxy groups in one molecule such as glycerol polyglycidyl ether and 5-20wt.% silane coupling agent such as N-β-aminoethyl-γ-aminopropylmethyl dimethoxysilane and other additives such as a lubricating agent in an amount of 0.1-2wt.%, preferably 0.3-1wt.% based on the fiber is applied thereto.

### LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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